

# Ashville Utility Department Monthly Operations Report



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Information Collection  
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## **Water and Sewer Divisions**

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## Ashville Vision Statement

Remembering our rural heritage, Ashville will be a vibrant and friendly community, offering an enhanced quality of life achieved through planning, progress and collaboration.

It will be a welcoming place where people want to live and businesses prosper.



*Ashville, Ohio*  
**www.ashvilleohio.gov**

## Utility Purpose Statement

“Quality of Life” will be enhanced by offering the best quality of water to our community and by ensuring that water is returned to Walnut Creek in the best possible condition for our environment.

The Utility Consumer will be treated in a “Friendly Manner”. Operations will be done in a manner to cost effective.

Services will be provided in a manner to create a place where people want to live and businesses prosper.





# ACTIVITY REPORT

## Monthly 2014 & YTD Information



### Expenses and Revenue Comparison

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Budget	Average	Mean
Water Division Tank Revenue	\$2,396	\$3,169	\$5,373	\$3,085	\$1,705								\$14,339	\$34,414	\$30,164	\$2,868	\$2,396
Water Division Total Revenue	\$30,457	\$26,461	\$59,204	\$32,333	\$27,299								\$175,754	\$421,809	\$403,653	\$35,151	\$30,457
Water Division Expenses	\$42,244	\$32,365	\$22,156	\$54,219	\$21,535								\$172,518	\$414,044	\$435,809	\$34,504	\$32,365
Wastewater Division I & I Revenue	\$3,270	\$2,295	\$3,126	\$2,242	\$2,161								\$13,095	\$31,427	\$20,296	\$2,619	\$2,295
Wastewater Division Revenue	\$45,811	\$215,644	-\$118,333	\$46,552	\$46,551								\$236,225	\$566,939	\$553,622	\$47,245	\$46,551
Wastewater Division Expenses	\$29,585	\$22,589	\$20,635	\$26,271	\$39,577								\$138,656	\$332,774	\$629,648	\$27,731	\$26,271
Water Balance	-\$11,786	-\$5,903	\$37,048	-\$21,886	\$5,764								\$3,236	\$7,765	-\$32,156	\$647	-\$5,903
Wastewater Balance	\$16,226	\$193,054	-\$138,968	\$20,281	\$6,975								\$97,569	\$234,165	-\$76,026	\$19,514	\$16,226
Wastewater Plant Expansion	\$3,294	\$168,844	-\$168,844	\$0.00	\$0.00								\$3,294	\$7,906	\$0.00	\$659	\$0.00

Equipment Maintenance = \$321.68  
 1996 Jeep Maintenance = 611.099  
 2000 Chevy Truck Maintenance = \$38.00  
 1996 Jeep Cherokee = \$200

Equipment Maintenance = \$201.71 for John  
 Deer Tractor/Loader  
 2004 Blue Utilities Van = \$8.32

# Water Division

## Treatment Plant

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Average	Mean	Measure
Total Gallons Raw Water Pumped:	20.115	18.625	20.463	19.488	20.804								59.203	236.812	19.73	20.115	MGD
Total Gallons Treated:	17.397	16.141	17.386	16.482	17.669								50.924	203.696	16.97	17.386	MGD
Total Water Billed	6.666	10.729	10.261	7.600	13.013								27.656	110.624	9.22	10.261	MGD
Total Gallons to Waste:	2.718	2.484	3.077	3.006	3.135								8.279	33.116	2.76	2.718	MGD
Average Daily Treated Water:	0.561	0.577	0.561	0.549	0.57								1.699	6.796	0.57	0.561	MGD
Total Chlorine Used: (disinfection)	500	220	350	370	475								1070	4280	356.67	350	Gallons
Average Chlorine used/day:	16.1	8	11	12	15								35.1	140.4	11.70	11	GPD
Average Chlorine Residual:	0.4	0.5	0.34	0.44	0.48								1.24	4.96	0.41	0.4	mg/l
Total Salt used:	24.58	24	24.43	49.22	25.27								73.01	292.04	24.34	24.43	Tons
% between Treated & Billed	61.68	33.53	40.98	53.89	26.35								45.69%	45.69%	45.40%	40.98%	Percentage

## To Distribution:

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Average	Mean	Measure
Average Iron Concentration:	0.33	0.22	0.33	0.23	0.42								1.53	3.672	0.31	0.33	mg/l
Average Manganese Concentration:	0.04	0.03	0.03	0.03	0.03								0.16	0.384	0.03	0.03	mg/l
Average Hardness Concentration:	222	208	253	200	277								1160	2784	232.00	222	mg/l
Average Chlorine Residual:	0.46	0.44	0.63	0.56	0.53								2.62	6.288	0.52	0.53	mg/l

## Distribution System

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Ave	Mean	Measure
Meters Installed (Radio Read):	0	0	1	6	14								21	50.4	4.20	1	Each
New Water Tap Inspections:	0	0	1	1	0								2	4.8	0.40	0	Each
Meter Inspections	0	0	0	0	0								0	0	0.00	0	Each
Final Reads:	5	2	8	5	3								23	55.2	4.60	5	Each
Meter Check Reread:	0	3	10	15	9								37	88.8	7.40	9	Each
Water Shut-offs Delivered	117	84	82	75	100								458	1099.2	91.60	84	Each
Water Shut-offs:	5	7	19	2	9								42	100.8	8.40	7	Each
Water Turn On:	4	1	6	3	0								14	33.6	2.80	3	Each
Curb Box Repairs:	0	0	2	2	0								4	9.6	0.80	0	Each
Main Valve Repairs	0	0	0	0	0								0	0	0.00	0	Each
Line Locates:	0	0	2	1	1								4	9.6	0.80	1	Each
Customer Service:	1	4	6	0	0								11	26.4	2.20	1	Each
Water Breaks:	0	1	0	10	3								13	31.2	2.60	0	Each
Blue Tags Delivered	0	1	3	1	0								2	4.8	0.40	0	Each
Backflow Surveys	0	0	0	3	0								3	7.2	0.60	0	Each
Frozen Service Intervention	4	0	0	1	8								13	31.2	2.60	1	Each
Fire Hydrant Repair	0	1	0	0	0								0	0	0.00	0	Each
Total # Work Orders Completed:	136	104	140	0	0								4	9.6	0.80	0	Each

# Water Plant Maintenance

## January:

- Installed air relief valve on 8-inch water softener feed lines
- Installed 2 air relief valves on 4-inch water softener discharge lines

## February:

- New exhaust fan in Chlorine Room
- New air compressor switch installed
- New communication radios installed at water plant, well 4, plant tower, 752 tower
- New air release valve installed on softener 1
- New plumbing and chlorine bulk storage tanks installed

## March:

- New Roof on Plant
- Installed two (2) new air release valves on softeners

## April:

- FCC Radio license renewed

## May:

- None Reported



# Wastewater Division

## Treatment Plant

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Average	Mean	Measure
Total Rainfall:	2.16	1.91	2.56	6.06	4.1								16.79	40.296	3.36	2.56	Inches
Total Gallons Treated	16.458	16.105	13.65	20.413	17.32								83.946	201.4704	16.79	16.46	MGD
Total Gallons Billed	6.601	7.024	6.995	6.790	6.311								33.721	80.9304	6.74	6.79	
Average Daily Treated Water:	0.531	0.575	0.44	0.68	0.559								2.785	6.684	0.56	0.56	MGD
Total Chlorine Used: (disinfection)	0	0	0	0	315								315	756	63.00	0.00	Gallons
Average Chlorine used/day:	0	0	0	0	10								10	24	2.00	0.00	GPD
Average Chlorine Residual:	0	0	0	0	0.17								0.17	0.408	0.03	0.00	mg/l
Total Thiosulfate Used for Dechlor:	0	0	0	0	135								135	324	27.00	0.00	lbs
Average Thiosulfate Used /Day:	0	0	0	0	4.36								4.36	10.464	0.87	0.00	lbs
Average Raw (inflow) CBOD/Day:	451.71	618.62	535.76	680.54	475.53								2762.16	6629.184	552.43	535.76	lbs/day
Average CBOD removed/Day:	425.14	611.62	522.89	650.77	447.56								2657.98	6379.152	531.60	522.89	lbs/day
% Removed CBOD:	94.12	98.87	97.6	96	94								480.59	1153.416	96.12	96.00	%
Average Raw Total Suspended Solids:	688.64	858.4	908.23	873.37	798.38								4127.02	9904.848	825.40	858.40	lbs/day
Average TSS Removed/Day:	675.91	851.99	893.07	857.06	769.24								4047.27	9713.448	809.45	851.99	lbs/day
% Removed TSS:	98.15	99.25	98.33	98.13	96.35								490.21	1176.504	98.04	98.15	%
Average Daily Dissolved Oxygen:	8.94	9.13	9.55	8.72	9.13								45.47	109.128	9.09	9.13	mg/l
Total Sludge Wasted to Digester:	128,840	133,940	263,140	135,490	44,360								705,770	1,693,848	141,154	133,940	Gallons
Total Sludge Land Applied	0	0	0	31.98	12.73								44.71	107.304	8.94	0.00	Dry Tons
Sludge removed to other facility	0	0	0	0	0								0	0	0.00	0.00	Gallons
Percentage between Treated & Billed	249.33	229.29	195.14	300.63	274.44								248.94	248.94	249.77	249.33	Percentage

## Collection System

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Average	Mean	Measure
Up Stream Dissolved Oxygen:	17.3	14	13.3	9.6	9.5								63.7	152.88	12.74	13.30	mg/l
Up Stream pH:	7.2	7.3	7.4	7.6	7.6								37.1	89.04	7.42	7.40	s.u.
Up Stream Temperature:	1	2	6	15	22								46	110.4	9.20	6.00	C
Down Stream Dissolved Oxygen:	16.5	15.7	13	9.7	9.7								64.6	155.04	12.92	13.00	mg/l
Down Stream pH:	7.2	7.3	7.4	7.6	7.6								37.1	89.04	7.42	7.40	s.u.
Down Stream Temperature	3	4	6	15	22								50	120	10.00	6.00	C
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projection	Average	Mean	Measure
New Taps:	1	0	0	0	0								0	0	0	0	Each
Collection Maintenance Calls:	4	1	1	4	2								4	2	4	2	Each
Located Sewer Taps	0	0	0	0	0								0	0	0	0	Each
Total Work Orders	5	1	1	0	0								0	0	0	0	Each

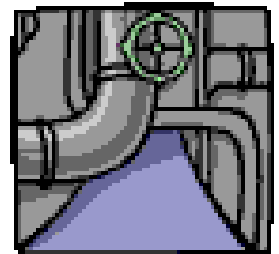
# Wastewater Plant Maintenance

## April:

- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Repaired level controls - Ashton Woods Lift Station
- 2004 Blue Utilities Van \$8.32
- 1996 Jeep Cherokee \$200

## May:

- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Main line sewer backup at Ruth Place (Dreier & Maller, Inc.)



# Wastewater Plant Maintenance

## January:

- Rebuilt #2 blower installed – operational
- Mechanical bar screen: Electrical upgrade to make screen run automatically (AMELCON, INC.)

## February:

- Greased all mechanical equipment and recorded in maintenance log
- One sewer backup on Morrison Avenue caused by Ashton Woods Pump Station Failure
- Level probes and cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Ashton Woods Pump #1 repaired and alarm repaired 2/13/2014
- Surveying for new Water Resource Recovery Facility.

## March:

- Greased all mechanical equipment and recorded in maintenance log
- Repaired broken pump discharge pipe – West Equalization (EQ) Basin
- Drained / cleaned north and south final clarifiers
- Installed safety fence around final clarifier splitter box
- Repair broken shear pin in north final clarifier
- Level probes and cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Repaired level controls - Ashton Woods Lift Station
- Equipment Maintenance \$201.71
- John Deer Tractor/loader

